

Global K-Band CW Radar Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global K-Band CW Radar market size is expected to reach \$ 1743 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

In 2025, global K-Band CW Radar production reached approximately 4.00 million units, with an average global market price of around US\$245 per unit.

The gross profit margin of major companies in the industry is between 45%–65%.

In 2025, the global production capacity of K-band CW radar was approximately 5.33 million units.

K-Band Continuous Wave Radars are microwave sensing devices operating in the K-band frequency range that transmit and receive continuous electromagnetic waves to detect motion, speed, distance, or presence of objects. They are widely used in traffic monitoring, industrial automation, security sensing, and short-range detection applications.

The industrial chain of K-Band CW Radar includes upstream RF components such as MMIC chips, oscillators, antennas, substrates, and passive components. The midstream focuses on module integration, calibration, signal conditioning, and packaging. Downstream applications cover traffic enforcement systems, industrial sensors, smart infrastructure, security systems, and consumer electronics, supported by system integration and maintenance services.

This report studies the global K-Band CW Radar production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for K-Band CW Radar and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of K-Band CW Radar that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global K-Band CW Radar total production and demand, 2021-2032, (K Units)

Global K-Band CW Radar total production value, 2021-2032, (USD Million)

Global K-Band CW Radar production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global K-Band CW Radar consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: K-Band CW Radar domestic production, consumption, key domestic manufacturers and share

Global K-Band CW Radar production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global K-Band CW Radar production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global K-Band CW Radar production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global K-Band CW Radar market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Infineon Technologies, Texas Instruments, NXP Semiconductors, Analog Devices, STMicroelectronics, onsemi, Bosch Sensortec, Renesas Electronics, Silicon Radar, RFbeam Microwave, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World K-Band CW Radar market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$

Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global K-Band CW Radar Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global K-Band CW Radar Market, Segmentation by Type:

Discrete CW Radar Module

Integrated CW Radar Sensor

CW Radar-on-Chip Solution

Global K-Band CW Radar Market, Segmentation by Signal Processing:

Analog CW Radar

Digital CW Radar

DSP-Based CW Radar

Global K-Band CW Radar Market, Segmentation by Antenna Configuration:

Integrated Antenna Radar

External Antenna Radar

Phased Antenna Radar

Global K-Band CW Radar Market, Segmentation by Application:

Traffic Monitoring & Speed Enforcement Industry

Industrial Automation & Sensing Industry

Security & Surveillance Industry

Consumer Electronics & Smart Devices Industry

Other

Companies Profiled:

Infineon Technologies

Texas Instruments

NXP Semiconductors

Analog Devices

STMicroelectronics

onsemi

Bosch Sensortec

Renesas Electronics

Silicon Radar

RFbeam Microwave

Key Questions Answered:

1. How big is the global K-Band CW Radar market?
2. What is the demand of the global K-Band CW Radar market?
3. What is the year over year growth of the global K-Band CW Radar market?
4. What is the production and production value of the global K-Band CW Radar market?
5. Who are the key producers in the global K-Band CW Radar market?
6. What are the growth factors driving the market demand?

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